er	ISBN - 0073101699		Publisher - Glencoe/McGraw-Hill			
plish	Chemistry: The Mo	ecular Nature	e of Matter and Cl	hange (Silberbe	rg)	
ne Pu	Type - P1	pe - P1 Author - Silberberg				
Provided by the Publisher	Copyright - 2006	Edition - 4th	1	Readability - Titles	Not Available for Higher Ed	
Provic	Course - Chemistry			Grade(s) -	9,10,11,12	
Teacher Edition ISBN if applicable				0072964391		
Overall Recommendation: Recommended as Basal Overall Strengths, Weaknesses, Comments:						
This is text text takes a macroscopic to moelcular approach to teaching and learning chemistry. The text provides numerous opportunities for student practice in the form of problems at the end of each chapter. Within the "Problems in Context" section, authentic problems are used to assist students in making connections. The text includes numerous illustrations throughout the chapter and makes connections to Organic and Biochemistry along with connections to "Green" chemistry. The labs associted with this text are in a separate laboratory manual. CRITERIA This basal resource						
A. Encompasses KY Content Star Expectations			ndards & Grade Level		Strong EvidenceModerate EvidenceLittle or No Evidence	
☐ Text is designed to be used in an elective course outside the Program of Studies						
1) Includes the 7 Big Ideas of science to the following extent:						
	a) Structure and	Transformation	on of Matter	Stro	ng Moderate Little N/A	
	b) Motion and F	orces		Stro	ng 🔲 Moderate 🔲 Little 🔀 N/A	
	c) The Earth and	d the Universe		Stro	ng ☐ Moderate ☐ Little ☒ N/A	
	d) Unity and Div	ersity		☐ Stro	ng ☐ Moderate ☐ Little ☒ N/A	
	e) Biological Cha	ange		Stro	ng 🔲 Moderate 🔲 Little 🔀 N/A	
	f) Energy Trans	formation		☐ Stro	ng ☑ Moderate ☐ Little ☐ N/A	
	g) Interdepende	nce		☐ Stro	ng 🔲 Moderate 🔲 Little 🔀 N/A	
	Addresses content-specific enduring understandings from the related Program of Studies			tudies Stro	ng Moderate Little N/A	

standards. 3) Addresses content-specific skills and concepts from the related Program of Studies standards. 4) Content addressed is current, relevant and non-trivial 5) Provides opportunities for critical thinking/reasoning 6) Strengths, Weaknesses, Comments: Specific strengths-which areas/concepts are covered exceptionally well? Specific weaknesses-which areas/concepts would likely require supplementing? Structure and Transformation of matter topics are covered in great detail in this text while Energy Transformation standards which are applicable are covered moderately covered. **B.** Functionality & Suitability X Strong Evidence **Moderate Evidence** Little or No Evidence 1) Suitability Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind. 2) Content quality Free from factual errors • Content is presented conceptually when possible—more than a mere collection of facts Content included accurately represents the knowledge base of the discipline Theories/scientific models contained represent a broad consensus of the scientific community 3) Connections to Literacy ☐ Strong ☐ Moderate ☐ Little Note: may apply to either student or teacher editions • Employs a variety of reading levels and is grade/level appropriate · Contains pre, during, post reading activities • Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles. Student text provides opportunity to integrate reading and writing • Uses vocabulary that is age and content appropriate Focuses on critical vocabulary vs. extensive lists · Identifies key vocabulary through definitions in both text and glossary Engaging text- does the text facilitate learning? Does understanding the text require having performed the imbedded activities? 4) Connections to Technology

- Integrates technology and reflects the impact of technological advances • Uses technology in the collection and/or manipulation of authentic data 5) Support for Diverse Learners ☐ Strong ☐ Moderate ☒ Little • Provides support for ESL students Provides support for differentiation of instruction in diverse classrooms Note: may apply only to teacher edition 6) Strengths, Weaknesses, Comments: Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards. Technology includes the use of an online learning center and multimedia supplments (power point outlines, art/photo library, worked examples and tables) on CD-ROM. C. Supports Inquiry and Skill Development Strong Evidence **Moderate Evidence** Little or No Evidence 1) Promotes Inquiry, research and Application of Learning ☐ Strong ☐ Moderate ☐ Little Provides opportunities for inquiry and research that includes activities such as self-selecting topics, formulating authentic questions, gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions. Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, etc.) Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills. • Provides opportunities for application of learned concepts. • Uses a variety of relevant charts, graphs, diagrams, time lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills. Emphasizes conceptual understandings that invite students to predict, conclude, evaluate. develop and extend ideas to support reasoning. Note: may apply to either teacher or student edition 2) Skill Development ☐ Strong ☐ Moderate ☐ Little
 - Provides opportunities to make sense of data
 - Provides opportunities for critical thinking and reasoning (analyze arguments, distinguish fact/opinion, recognize bias)
 - Provides opportunities to examine a range of types of evidence
 - Contains embedded activities (or extensions) that emphasize use of technology for problem solving

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

Available resources include electronic multimedia and related instructor's resources but laboratory learning activities are missing but available separately.

D. Supports Best Practices of Teaching and Learning	Strong Evidence Moderate Evidence Little or No Evidence
1) Engages Students	☐ Strong ☑ Moderate ☐ Little
 Includes content geared to the needs, interests, and abilities of st Engages and motivates students using components such as real-experiments, and data gathering. Includes information and activities that assist students in seeing rappropriate) to their own lives and experiences Provides a variety of strategies, activities, and materials to enhan appropriate learning levels Activities are truly congruent to the concepts addressed, not mere Note: may apply to either teacher or student edition 	elevance of concepts (where ce student learning at the
2) Uses Assessment to Inform Instruction	☐ Strong ☐ Moderate ☒ Little
 Includes multiple means of assessment as an integral part of inst Provides evaluation measures in the teacher edition that supports Embedded assessments reflect a variety of Depth of Knowledge Note: may apply to either teacher or student edition Strengths, Weaknesses, Comments: Reviewers may provide page numbers to point out specific strong evaluation standards 	s differentiated learning activities levels
Strategies and activities provided in the text are limited other sample problems available. No apparent multiple means of as in the text materials. Reali life situations are addressed in the portions of the end of chapter practice problems.	ssessment were observed
E. Has an Organization/ Format that Supports Learning and Teaching	☐ Strong Evidence ☐ Moderate Evidence ☐ Little or No Evidence
1) Organizational Quality	Strong
 Print and/or electronic materials present minimal barriers to learn Presents chapters/lessons in an organized and logical sequence Provides clearly stated objectives for each lesson. Uses text features (e.g., titles, headings, subheadings, review que space, print, type size, color) to enhance readability. 	

Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components) as either student or teacher resources
Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that

reinforce content standards.

- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size

Included media are durable, easy to use and have technical merit

• Construction appears to be durable and able to withstand normal use

 Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:

 Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The text is well organized and easy to work your way through. Essential components such as study guide, solutions manual, and the AP Instructors manual support the teacher and student text.

F. Has available Ancillary/ Gratis Materials

Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F

Little or No Evidence

1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving

2) Strengths, Weaknesses, Comments:

 Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Anicllary materials inlcude an AP Instructors manual, solutions quide, and test generator among other items. The lab manual for the course is NOT included and would have to be pruchased separately.